Tasks remained to be done during 2003 shutdown

1. Permit Bypass Chassis modification (for filtering QLO noise pulse less than 1.6 ms)
   a. Modify, test and install 8 Permit Bypass Chassis.
   Status: All 8 units are modified.
   b. Modify firmware.
   Status: Firmware modification is in progress.

2. For Permit Module fault detection
   a. Six Service buildings (2B, 4B, 6B, 8B, 10A and 12A), pull four new RG58 cables in each service buildings from the Control room Permit Module to Timing Resolver.
   b. Two Service buildings (8B and 10A), pull two new RG58 cables from DX Heater in each service buildings from the Interface Chassis to the Timing Resolver.
   Status: Not scheduled yet.

3. For Sextupole Crowbar status monitoring
   a. Order parts for the PCB.
   b. Build six PCBs and mount them on 1-U panels.
   c. Install these six panels to B alcoves.
   Status: Not scheduled yet.
   d. Modify Timing Resolver firmware
   Status: Firmware modification is in progress.

4. Quench Switch Opening time detection (to be done on all four Quench Switches)
   a. Add one Alpha 9888C cable from the quench switch to the newly mounted TB inside the rack.
   b. Add one Alpha 9888C cable from the HV monitoring chassis to the newly mounted TB inside the rack.
   Status: Mitch started the task, but was taken out to pull temp sensor cables.
   c. Modify petpage and high level software.
   Status: In process of talking to Joe Piacentino and Tom Clifford.

5. Lead Temperature Sensing
   a. Build 1-Wire network terminating boards (total 24).
   Status: Rich, Mitch and Joe are started pulling cables.
   b. Mount temp sensors to lead trees (total 1086 sensors) and to 1-Wire networks.
   Status: No one is assigned to build terminating boards.
   c. All new software will be developed by the Control group.
   Status: Heather Hartmann had started the task.

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6. Voltage Monitor
   a. Build prototype boards (total 5).
   Status: Prototype boards had received and parts are in order. No manpower is assigned to build prototype boards.
   b. Order 24 48-VAC 2-Amp transformers.
   c. Contract outside source to build about 1000 units.
   Status: Will start after the prototype board is qualified.
   d. Mount Voltage Monitors to trees and to 1-Wire networks.
   Status: Will start after the production board are built and received.
   e. All new software will be developed by the Control group.
   Status: No one is assigned to this task yet.